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executable adj object and plant and graphic$ and template and process	34

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L7	L4 and executable adj object and plant and graphic$ and template and process	11	L7
L6	configuration adj viewing adj system	7	L6
L5	L4 and (eryurek-evren.in. or krouth-terrence-f.in. or lansing-jane-e.in.)	36	L5
L4	(700.clas. or 709.clas.)	110760	L4
L3	configuration adj viewing adj system and plant and template adj configuration and physical adj entity	2	L3
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L9	configur$ adj object and executable adj object and plant and graphic$ and template and process	10	L9
L8	executable adj object and plant and graphic$ and template and process	34	L8
L7	L4 and executable adj object and plant and graphic$ and template and process	11	L7
L6	configuration adj viewing adj system	7	L6
L5	L4 and (eryurek-evren.in. or krouth-terrence-f.in. or lansing-jane-e.in.)	36	L5
L4	(700.clas. or 709.clas.)	110760	L4
L3	configuration adj viewing adj system and plant and template adj configuration and physical adj entity	2	L3
DB=PGPB,USPT; PLUR=YES; OP=OR			
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configuration and physical adj entity

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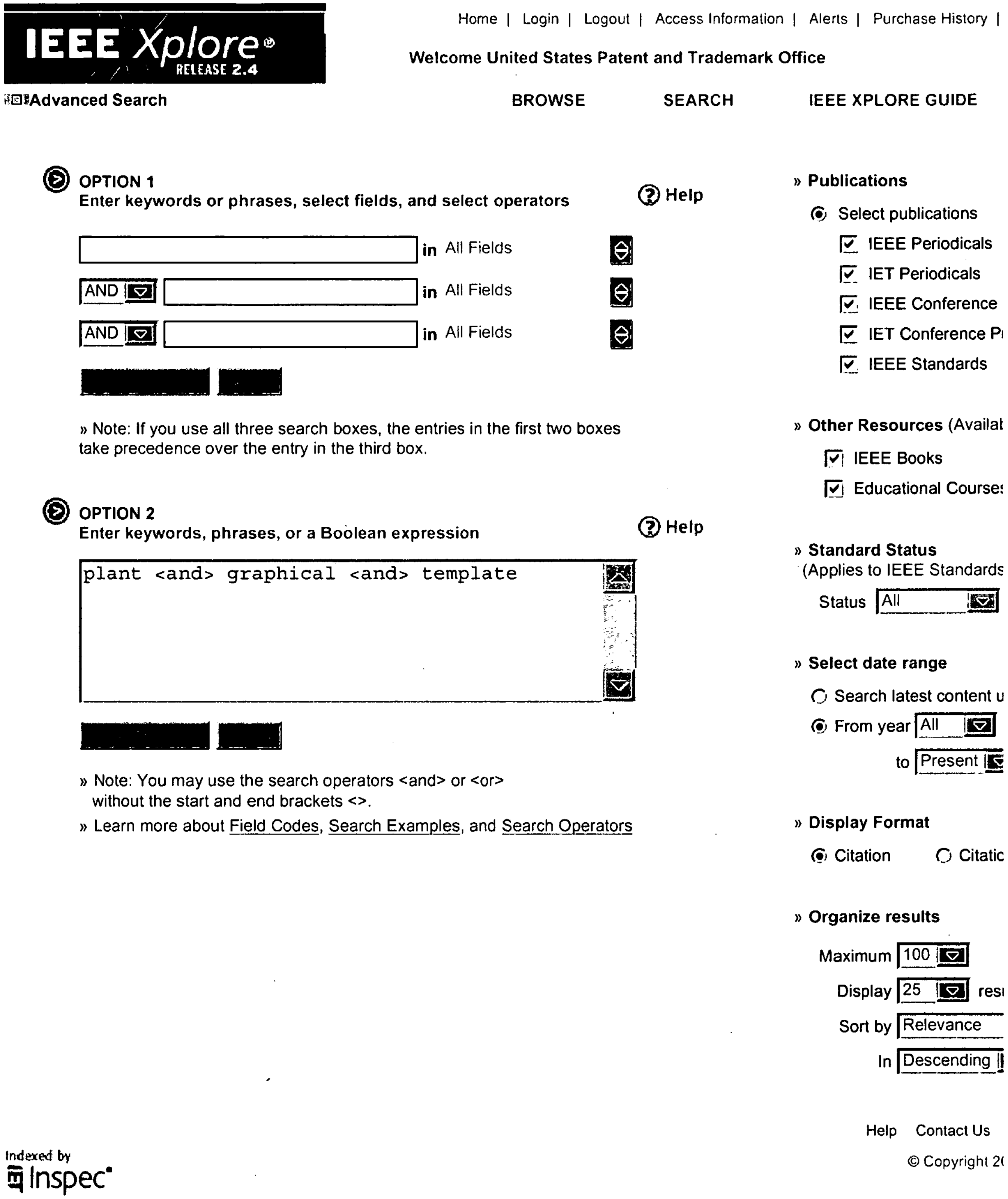

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1 General applications: Complex and interconnected systems: optimistic parallel simulation of a large-scale view storage system

Garrett Yaun, Christopher D. Carothers, Sibel Adali, David Spooner

December 2001 **Proceedings of the 33nd conference on Winter simulation WSC '01**

Publisher: IEEE Computer Society

Full text available: pdf(139.73 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present the design and implementation of a complex view storage system model that is suitable for execution on a optimistic parallel simulation engine. What is unique over other optimistic systems is that reverse computation as opposed to state-saving is used to support the rollback mechanism. In this model, a hierarchy of view storage servers are connected to an array of client-side local disks. The term *view* refers to the output or result of a query made on the part of ...

2 C-CLR: a tool for navigating highly configurable system software

Nieraj Singh, Celina Gibbs, Yvonne Coady

March 2007 **Proceedings of the 6th workshop on Aspects, components, and patterns for infrastructure software ACP4IS '07**

Publisher: ACM Press

Full text available: pdf(249.17 KB) Additional Information: full citation, abstract, references, index terms

In order to accommodate the spectrum of configuration options currently required for competitive system infrastructures, many systems leverage heavy usage of C preprocessor controlled conditional compilation. In herent costs associated with this heavy preprocessor usage include both the impaired readability of the base system, and the reduced reusability of the configuration code.

Our proposed solution, C-CLR, allows developers to sift through views of a system based on configuration o ...

Keywords: aspect-oriented programming, conditional compilation, modularization, preprocessor directives, structured programming, system configuration, tools

3 Expert systems for configuration at Digital: XCON and beyond

Virginia E. Barker, Dennis E. O'Connor, Judith Bachant, Elliot Soloway

March 1989 **Communications of the ACM**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: pdf(2.29 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Members of Digital Equipment Corporation's team of expert system experts reflect and recount a decade's worth of lessons learned in designing, and building a core of configuration systems

4 Full papers: Self-organising software architectures for distributed systems
Ioannis Georgiadis, Jeff Magee, Jeff Kramer
November 2002 **Proceedings of the first workshop on Self-healing systems WOSS '02**
Publisher: ACM Press
Full text available: pdf(98.93 KB) Additional Information: full citation, abstract, references, citings

A self-organising software architecture is one in which components automatically configure their interaction in a way that is compatible with an overall architectural specification. The objective is to minimise the degree of explicit management necessary for construction and subsequent evolution whilst preserving the architectural properties implied by its specification. This paper examines the feasibility of using architectural constraints as the basis for the specification, design and implemen ...

Keywords: constraints, self-configuring, software architecture

5 Configuration support for system description, construction and evolution
J. Kramer, J. Magee, M. Sloman
April 1989 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 5th international workshop on Software specification and design IWSSD '89**, Volume 14 Issue 3
Publisher: ACM Press
Full text available: pdf(642.10 KB) Additional Information: full citation, references, index terms

6 Session: Configuring distributed systems
Jeff Kramer, Jeff Magee, Morris Sloman
September 1992 **Proceedings of the 5th workshop on ACM SIGOPS European workshop: Models and paradigms for distributed systems structuring EW 5**
Publisher: ACM Press
Full text available: pdf(406.09 KB) Additional Information: full citation, abstract, references, citings

Distributed systems are constructed from a set of computational components which are bound together to interact and communicate to achieve some over all objective. In this paper, we examine the issues related to system configuration, particularly those related to component binding. We argue that there is a need for tools to aid the initial construction and subsequent management of the structure of distributed systems.Currently, distributed systems are most commonly structured using a client/serv ...

7 A usability study of awareness widgets in a shared workspace groupware system
Carl Gutwin, Mark Roseman, Saul Greenberg
November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work CSCW '96**
Publisher: ACM Press
Full text available: pdf(1.40 MB) Additional Information: full citation, references, citings, index terms

Keywords: shared workspaces, usability study, workspace awareness

8 Version models for software configuration management
Reidar Conradi, Bernhard Westfechtel
June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2
Publisher: ACM Press
Full text available: pdf(483.54 KB) Additional Information: full citation, abstract, references, citings, index terms

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

9 Autonomic computing: Functionality configuration for eHome systems
Ulrich Norbisrath, Christof Mosler
October 2006 **Proceedings of the 2006 conference of the Center for Advanced Studies on Collaborative research CASCON '06**
Publisher: ACM Press
Full text available: pdf(558.97 KB) htm(1.64 KB) Additional Information: full citation, abstract, references, index terms

New developments and decreasing costs of electronic appliances enable the realization of pervasive systems in our daily environment. In our work, we focus on eHome systems. The price of individual development and adaption of the software making up these systems is one of the major problems preventing their large-scale adoption. In this paper, we introduce an approach built upon functionality composition for automatic service configuration in different environments. We transform the repetitive de ...

10 ObNet: an object-oriented approach for supporting large, long-lived, highly configurable systems
T. Gallo, G. Serrano, F. Tisato
May 1989 **Proceedings of the 11th international conference on Software engineering ICSE '89**
Publisher: ACM Press
Full text available: pdf(853.96 KB) Additional Information: full citation, references, citings, index terms

Keywords: multi environments, multi representations object dependency, object oriented approach, software engineering environments

11 Concepts in configuration management systems
Susan Dart
May 1991 **Proceedings of the 3rd international workshop on Software configuration management**
Publisher: ACM Press
Full text available: pdf(1.92 MB) Additional Information: full citation, references, citings, index terms

12 A component model for dynamic adaptive systems
Holger Klus, Dirk Niebuhr, Andreas Rausch
September 2007 **International workshop on Engineering of software services for pervasive environments: in conjunction with the 6th ESEC/FSE joint meeting ESSPE '07**
Publisher: ACM Press
Full text available: pdf(521.86 KB) Additional Information: full citation, abstract, references, index terms

Dynamic adaptive systems are systems which change their behavior according to the needs of the user during runtime based on context information. Since it is not feasible to develop these systems from scratch every time, a component model enabling dynamic adaptive systems is necessary. Moreover, an infrastructure is required which is capable of wiring dynamic adaptive systems from a set of components in order to provide a dynamic and adaptive behavior to the user. In this paper we present such ...

Keywords: adaptation, component composition, component container, component model, componentware

13 Curriculum recommendations for graduate professional programs in information systems
May 1972 **Communications of the ACM**, Volume 15 Issue 5
Publisher: ACM Press
Full text available: pdf(4.00 MB) Additional Information: full citation, references, citings

Keywords: education, information analysis, information systems development, management information systems, management systems, system design, systems analysis

14 Seeking configurational optimization in computer systems
Swatantra K. Kachhal, Sant R. Arora
January 1975 **Proceedings of the 1975 annual conference ACM 75**
Publisher: ACM Press
Full text available: pdf(535.76 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper develops analytic techniques for achieving macro-level configurational optimization of computer systems. The computer is viewed as a network of queues with the processors, main memory, auxiliary memory and the transfer channels being the servers. The objective function to be minimized is the total system cost divided by the probability of the CPU busy time for a given user benchmark. A queueing model is developed which evaluates this probability. The scope of optimization include ...

15 A mini-computer configuration for CAI: a systems engineering view
Louis S. Adler
October 1973 **ACM SIGARCH Computer Architecture News**, Volume 2 Issue 3
Publisher: ACM Press
Full text available: pdf(500.66 KB) Additional Information: full citation, abstract

Computer assisted instruction (CAI) has not impacted the educational world with the degree of success which early proponents predicted. Although CAI has proven to be a more efficient learning tool than common traditional methods in specific instances, the overall success of such systems has been sporadic. There is no question that a well-designed and correctly implemented CAI system can be highly effective; however, several important factors must be overcome to guarantee a reasonable amount of s ...

16 Versioning and configuration management in an object-oriented data model
Edward Sciore
January 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(1.57 MB) Additional Information: full citation, abstract, references, citings

Many database applications require the storage and manipulation of different versions of data objects. To satisfy the diverse needs of these applications, current database systems support versioning at a very low level. This article demonstrates that application-independent versioning can be supported at a significantly higher level. In particular, we extend the EXTRA data model and EXCESS query language so that configurations can be specified conceptually and non-procedurally. We also show how ...

Keywords: EXTRA/EXCESS data models, generic and specific references, query language, semantically based configuration specifications

17 Exporting and interactively querying Web service-accessed sources: The CLIDE System
Michalis Petropoulos, Alin Deutsch, Yannis Papakonstantinou, Yannis Katsis
November 2007 **ACM Transactions on Database Systems (TODS)**, Volume 32 Issue 4
Publisher: ACM
Full text available: pdf(1.80 MB) Additional Information: full citation, abstract, references, index terms

The CLIDE System assists the owners of sources that participate in Web service-based data publishing systems to publish a restricted set of parameterized queries over the schema of their sources and package them as WSDL services. The sources may be relational databases, which naturally have a schema, or ad hoc information/application systems whereas the owner publishes a virtual schema. CLIDE allows information clients to pose queries over the published schema and utilizes prior work on answe ...

Keywords: Middleware, Web services, limited access patterns, query rewriting

18 A structural view of the Cedar programming environment
Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4
Publisher: ACM Press
Full text available: pdf(6.32 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

19 Exploiting architectural prescriptions for self-managing, self-adaptive systems: a position paper
Matthew J. Hawthorne, Dewayne E. Perry

October 2004 **Proceedings of the 1st ACM SIGSOFT workshop on Self-managed systems WOSS '04**
Publisher: ACM Press
Full text available: pdf(267.43 KB) Additional Information: full citation, abstract, references, citings

We propose a high-level approach to software architecture that bridges the gap between system requirements (in the problem space) and the architectural design (in the solution space). We use abstract *constraint*- and *intent*-based architectural prescriptions to enable architectural reflection, reification, and distributed configuration discovery as the basis for designing adaptive, self-configuring software systems. We discuss some key architectural properties and patterns that facil ...

20 Technical papers: consistency management and quality assurance: Palantír: raising awareness among configuration management workspaces
Anita Sarma, Zahra Noroozi, André van der Hoek
May 2003 **Proceedings of the 25th International Conference on Software Engineering ICSE '03**
Publisher: IEEE Computer Society
Full text available: pdf(1.72 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

Current configuration management systems promote workspaces that isolate developers from each other. This isolation is both good and bad. It is good, because developers make their changes without any interference from changes made concurrently by other developers. It is bad, because not knowing which artifacts are changing in parallel regularly leads to problems when changes are promoted from workspaces into a central configuration management repository. Overcoming the bad isolation, while retai ...

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1 Programming languages and systems for prototyping concurrent applications
Wilhelm Hasselbring
March 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 1
Publisher: ACM Press
Full text available: pdf(559.78 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Concurrent programming is conceptually harder to undertake and to understand than sequential programming, because a programmer has to manage the coexistence and coordination of multiple concurrent activities. To alleviate this task several high-level approaches to concurrent programming have been developed. For some high-level programming approaches, prototyping for facilitating early evaluation of new ideas is a central goal. Prototyping is used to explore the ...

Keywords: concurrency, distribution, parallelism, rapid prototyping, very high-level languages

2 A survey of structured and object-oriented software specification methods and techniques
Roel Wieringa
December 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(605.26 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article surveys techniques used in structured and object-oriented software specification methods. The techniques are classified as techniques for the specification of external interaction and internal decomposition. The external specification techniques are further subdivided into techniques for the specification of functions, behavior, and communication. After surveying the techniques, we summarize the way they are used in structured and object-oriented methods and indicate ways in w ...

Keywords: languages

3 Classics in software engineering

January 1979 Divisible Book
Publisher: Yourdon Press
Additional Information: full citation, cited by, index terms

4 Dynamic adaptation of real-time software
Thomas E. Bihari, Karsten Schwan
May 1991 **ACM Transactions on Computer Systems (TOCS)**, Volume 9 Issue 2
Publisher: ACM Press
Full text available: pdf(2.04 MB) Additional Information: full citation, abstract, references, citings, index terms, review

In large, dynamic, real-time computer systems, it is frequently most cost effective to employ different software performance and reliability techniques at different levels of granularity, at different times, or within different subsystems. These techniques may include regulation of redundancy and resource allocation, multiversion and multipath execution, adjustments of program attributes such as time-out periods and others. The management of software in such systems is a difficu ...

Keywords: adaptability, dynamic software architectures, real-time systems, software engineering

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